

Docket No. 244079US2



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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF: Kyesan LEE, et al.

SERIAL NO: 10/686,560

GAU: 2665

FILED: October 17, 2003

EXAMINER:

FOR: TRANSMITTER DEVICE AND TRANSMITTING METHOD USING OFDM AND MC-CDMA

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97

COMMISSIONER FOR PATENTS  
ALEXANDRIA, VIRGINIA 22313

SIR:

Applicant(s) wish to disclose the following information.

REFERENCES

- ☒ The applicant(s) wish to make of record the references cited in the Japanese Office Action and listed on the attached form PTO-1449. Copies of the listed references are attached, where required, as are either statements of relevancy or any readily available English translations of pertinent portions of any non-English language references.
- ☐ A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

RELATED CASES

- ☐ Attached is a list of applicant's pending application(s), published application(s) or issued patent(s) which may be related to the present application. In accordance with the waiver of 37 CFR 1.98 dated September 21, 2004, copies of the cited pending applications are not provided. Cited published and/or issued patents, if any, are listed on the attached PTO form 1449.
- ☐ A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

CERTIFICATION

- ☐ Each item of information contained in this information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement.
- ☐ No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned, having made reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this statement.

DEPOSIT ACCOUNT

- ☒ Please charge any additional fees for the papers being filed herewith and for which no check or credit card payment is enclosed herewith, or credit any overpayment to deposit account number 15-0030. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

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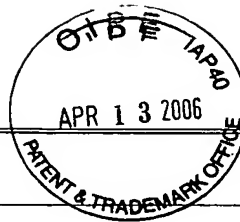
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AND MC-CDMA

**STATEMENT OF RELEVANCY**

**Reference AW on Form PTO-1449:**

Shows simulation result to indicate the capacity improvement by the VSF-OFDM system.

Form PTO 1449  
(Modified)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY DOCKET NO.

244079US2

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## LIST OF REFERENCES CITED BY APPLICANT

APPLICANT

Kyesan LEE, et al.

FILING DATE

October 17, 2003

GROUP

2665

## U.S. PATENT DOCUMENTS

| EXAMINER<br>INITIAL |    | DOCUMENT<br>NUMBER | DATE | NAME | CLASS | SUB<br>CLASS | FILING DATE<br>IF APPROPRIATE |
|---------------------|----|--------------------|------|------|-------|--------------|-------------------------------|
|                     | AA |                    |      |      |       |              |                               |
|                     | AB |                    |      |      |       |              |                               |
|                     | AC |                    |      |      |       |              |                               |
|                     | AD |                    |      |      |       |              |                               |
|                     | AE |                    |      |      |       |              |                               |
|                     | AF |                    |      |      |       |              |                               |
|                     | AG |                    |      |      |       |              |                               |
|                     | AH |                    |      |      |       |              |                               |
|                     | AI |                    |      |      |       |              |                               |
|                     | AJ |                    |      |      |       |              |                               |
|                     | AK |                    |      |      |       |              |                               |
|                     | AL |                    |      |      |       |              |                               |
|                     | AM |                    |      |      |       |              |                               |
|                     | AN |                    |      |      |       |              |                               |

## FOREIGN PATENT DOCUMENTS

|  |    | DOCUMENT<br>NUMBER | DATE       | COUNTRY                       | TRANSLATION |    |
|--|----|--------------------|------------|-------------------------------|-------------|----|
|  |    |                    |            |                               | YES         | NO |
|  | AO | 2001-320346        | 11/16/2001 | Japan (with English Abstract) |             | X  |
|  | AP | 2002-246958        | 8/30/2002  | Japan (with English Abstract) |             | X  |
|  | AQ | 10-93650           | 4/10/1998  | Japan (with English Abstract) |             | X  |
|  | AR | 2002-9734          | 1/11/2002  | Japan (with English Abstract) |             | X  |
|  | AS | 11-150530          | 6/2/1999   | Japan (with English Abstract) |             | X  |
|  | AT | 2001-251270        | 9/14/2001  | Japan (with English Abstract) |             | X  |
|  | AU | 2002-204192        | 7/19/2002  | Japan (with English Abstract) |             | X  |
|  | AV |                    |            |                               |             |    |

## OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)

|  |    |   |  |  |  |  |
|--|----|---|--|--|--|--|
|  | AW | Hiroyuki ATARASHI, et al., "Performance of Broadband OFCDM Packet Wireless Access Employing Variable Spreading Factor", PROCEEDINGS of the 2001 COMMUNICATIONS SOCIETY CONFERENCE of IEICE, August 29, 2001, page 333     |  |  |  |  |
|  | AX | Hiroyuki ATARASHI, et al., "Performance of VSF-OFCDM with Two-Dimensional Spreading Prioritizing Time Domain Spreading", TECHNICAL REPORT of IEICE, vol. 102, no. 150, June 21, 2002, pages 61-66 (with English Abstract) |  |  |  |  |
|  | AY |   |  |  |  |  |
|  | AZ |   |  |  | <input type="checkbox"/> Additional References sheet(s) attached |  |

Examiner

Date Considered

\*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.